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### [1. MDA13-001: Radar Tracking in Stressing Environments \(Countermeasures\)](#)

Release Date: 04-24-2013 Open Date: 05-24-2013 Due Date: 06-26-2013 Close Date: 06-26-2013

OBJECTIVE: MDA is seeking improvements in Radar Sensors systems that will enable intercepts to help defeat advanced countermeasures. Novel and innovative techniques for improving radar tracking in dense raid environments with focus on improving performance against RF advanced countermeasures is desired. The Radar should maintain track and quickly filter debris and advanced countermeasure objects ...

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### [2. MDA13-002: Impact Flash Mitigation in Raid Environments](#)

Release Date: 04-24-2013 Open Date: 05-24-2013 Due Date: 06-26-2013 Close Date: 06-26-2013

OBJECTIVE: This research seeks algorithms and hardware improvements for Focal Plane Arrays (FPAs) used in future BMDS interceptors. Interceptor missiles need an improved capability to detect, track, and discriminate threat objects in an environment that includes adverse effects from celestial objects, impact flashes from other interceptors, and stray light effects. The objective of this research ...

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### [3. MDA13-003: Improved Solid Divert and Attitude Control System \(DACS\)](#)

## Performance

Release Date: 04-24-2013 Open Date: 05-24-2013 Due Date: 06-26-2013 Close Date: 06-26-2013

OBJECTIVE: Develop and demonstrate improvements in SDACS performance in areas such as high-temperature, lightweight materials; propellants; thrust control techniques; and innovative SDACS architectures. DESCRIPTION: Ballistic Missile Defense kinetic warheads (KWs) utilize a DACS to maneuver the KW to intercept ballistic missile threats. A solid propellant is used to provide safe storage ...

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### **4. MDA13-004: Radar Resource Management (Raid Capability)**

Release Date: 04-24-2013 Open Date: 05-24-2013 Due Date: 06-26-2013 Close Date: 06-26-2013

OBJECTIVE: This Topic seeks research and development of innovative algorithms toward reducing radar resource utilization at the unit level through overall force level coordination of tracking assignments. The objective is to decrease overall radar resource management while increasing probability that all threats in a raid are tracked. DESCRIPTION: Radar resources can limit mission operati ...

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### **5. MDA13-005: Manufacturing efficiencies in Throttleable Divert and Attitude Control Systems (TDACS)**

Release Date: 04-24-2013 Open Date: 05-24-2013 Due Date: 06-26-2013 Close Date: 06-26-2013

OBJECTIVE: Develop and demonstrate improvements in manufacturing processes, yield and efficiencies of components and subsystems critical to controllable solid DACS applications. DESCRIPTION: Highest quality components are necessary to ensure that the TDACS can reliably perform its intended operation. MDA is interested in innovative product improvements and innovative application of matur ...

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### **6. MDA13-006: SM-3 Systems Materials and Design Improvements**

Release Date: 04-24-2013 Open Date: 05-24-2013 Due Date: 06-26-2013 Close Date: 06-26-2013

OBJECTIVE: This research seeks improvements in the materials and/or design for upper stage elements of the Standard Missile-3 (SM-3). Improvements include innovative materials & products that improve capability, reliability, and producibility in SM-3 upper stage systems, including application of or modification of existing products applied in a creative way to specific SM-3 systems, sub systems, ...

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## **7. MDA13-007: New and Innovative Overhead Persistent InfraRed (OPIR) Sensor Tasking Capabilities**

Release Date: 04-24-2013 Open Date: 05-24-2013 Due Date: 06-26-2013 Close Date: 06-26-2013

OBJECTIVE: Design innovative new tasking paradigms for OPIR sensor tasking, with consideration for timing constraints, as well as resolution and geometric differences between sensors. DESCRIPTION: Address and analyze the issues surrounding and including such factors as the unique sensor response times, unique positioning and the differences between various OPIR platforms and configuration ...

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## **8. MDA13-008: Multi-Sensor Environmental Characterization**

Release Date: 04-24-2013 Open Date: 05-24-2013 Due Date: 06-26-2013 Close Date: 06-26-2013

OBJECTIVE: To develop new methods for multi-sensor scene characterization to aid sensor resource management and target characterization. DESCRIPTION: Individual sensors, EO/IR or Radar, can generally determine when a particular portion of the scene is degraded, yielding inadequate information for tracking, or corrupted measurements for target characterization. However, for battle managem ...

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## **9. MDA13-009: Physical Uncloneable Function (PUF) Encryption Key**

Release Date: 04-24-2013 Open Date: 05-24-2013 Due Date: 06-26-2013 Close Date: 06-26-2013

OBJECTIVE: Physical Uncloneable Functions (PUFs) have been a topic of research interest in recent years for usage in system component or hardware authentication applications. The goal for this topic is to research means to significantly increase the statistical uniqueness and robustness of PUF such that they can be utilized as an encryption key for cryptographic processes. DESCRIPTION: ...

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## **10. MDA13-010: Security Improvements for Field Programmable Gate Arrays (FPGAs)**

Release Date: 04-24-2013 Open Date: 05-24-2013 Due Date: 06-26-2013 Close Date: 06-26-2013

OBJECTIVE: Develop innovative security measures to improve the security of Field Programmable Gate Arrays (FPGAs) being utilized in electronic systems. The innovation must be able to be implemented as an Intellectual Property (IP) core, or as IP Blocks; and provide security against a wide variety of reverse engineering methodologies. DESCRIPTION: The usage of FPGAs is rapidly increasin ...

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